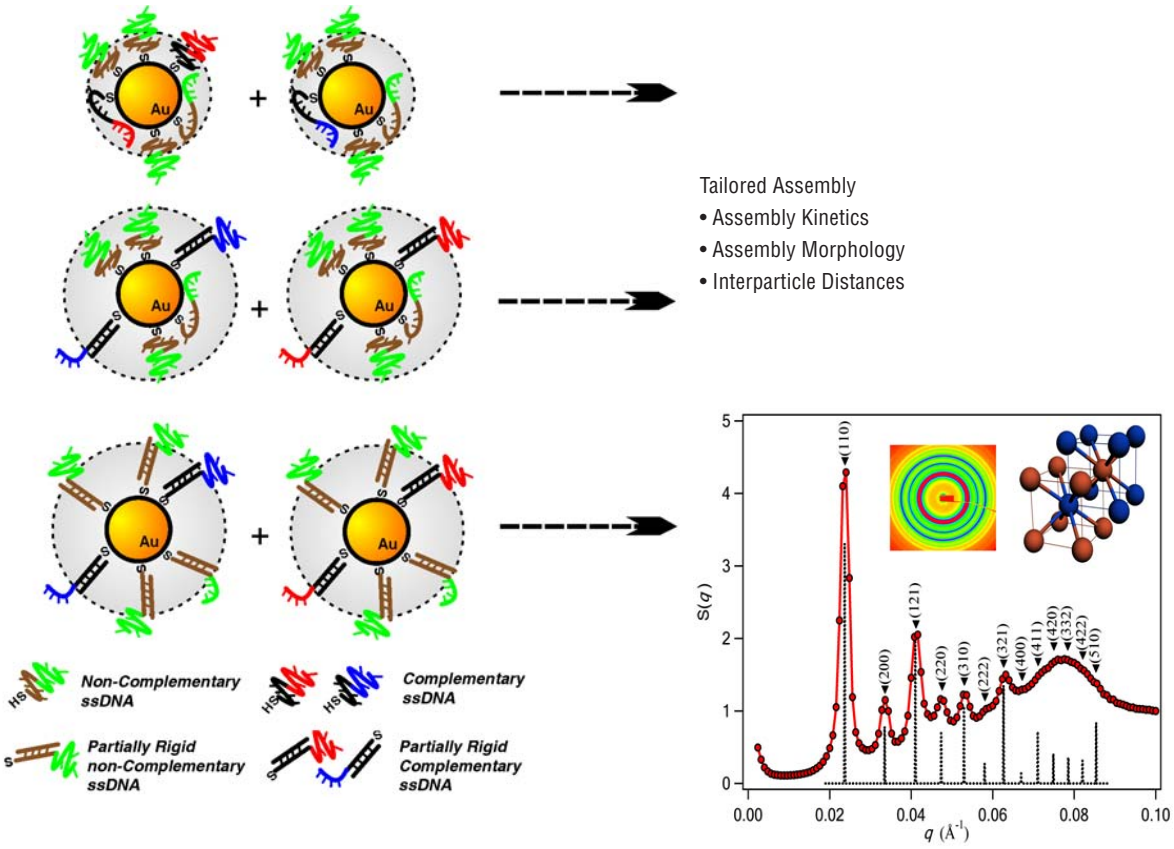
Assembly of 2D and 3D DNA-Based Nanosystems

Technology

Describes using DNA as a platform to tailor inter-object attraction and repulsion to generate 2D and 3D DNA-guided micro and nanoparticle assemblies. The DNA-based nanosystems formed may have non-close packed structures.



Applications

Generation of a broad range of precisely ordered novel 3D body-centered cubic (BCC) crystalline metamaterials for use in optical, magnetic, and medical applications.

Competitive Advantage

The technology offers unlimited ability to fabricate three-dimensional structures with controllable order and particle-particle distance. In addition, the rate and degree of assembly and aggregation can be controlled.

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License Status

Available for Licensing
- Non-Exclusive
- Exclusive

Patent Status

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